NEW LOW COST HIGH SPEED SMALL SILENT

MOTOROLA MODEL TP-4000 DESK-TOP TELEPRINTER

COMPACT desk-top size ■ **HIGH SPEED AND LOW COST** lowest price 3,000 word-per-minute teleprinter available ■ **SILENT** electronic, non-impact, noiseless printing ■ **ADAPTABLE** accommodates a variety of data codes or character sets ■ **AUTOMATIC** no operator required ■ **IMMEDIATE COPY** employs new nonburning electro-sensitive paper ■ **RELIABLE** proven solid state and integrated circuit design.

MOTOROLA INC. ***Military Electronics Division***

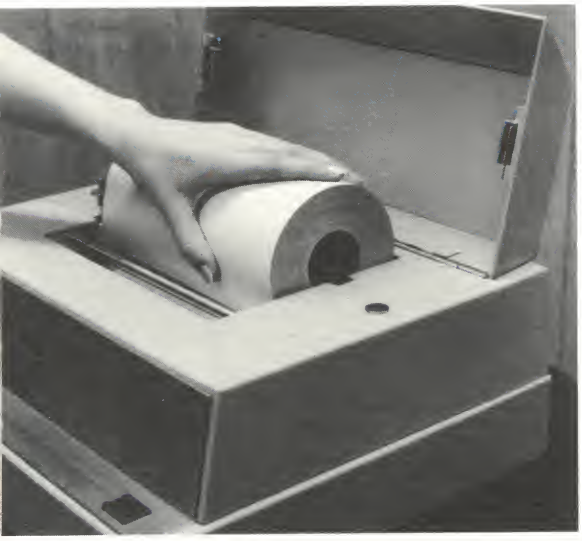
TP-4000

The TP-3000 Series of high-speed teleprinters from Motorola gained wide acceptance from all branches of the Armed Services, NASA, and major defense and aerospace contractors. Now, Motorola presents an evolutionary, fully-automatic, high-speed teleprinter especially designed for office installation. It is the Model TP-4000 – a remarkable new achievement. ■

The new TP-4000 Teleprinter is small and compact, silent in operation, and it does not require an operator. In fact, about the only thing it does require is that the supply of paper be replenished. Yet it provides up to 3,000 words per minute readout, accepts numerous data codes and character sets by exchanging a single plug-in module and it presents your message in standard format, 8½ inches wide, 80 characters per line. Readout is provided for both data processing and data communications systems. Standard optional features and accessories include: speeds from 100 to 3,000 words per minute, a variety of data inputs and character sets, automatic paper cutter, audible alarm mechanism, and other adaptations for special requirements. ■

Now you can take full advantage of high-speed data processing and data transmission rates of modern computer and communications systems, and at the same time reduce line rental costs considerably. For example, the high-speed advantages of the TP-4000 make it possible for you to replace 30 conventional 100 word-per-minute rented lines with one 2400 bit-per-second line. ■

an advanced, low-cost t



500-foot roll of paper is replaced, without tools, within a few seconds.

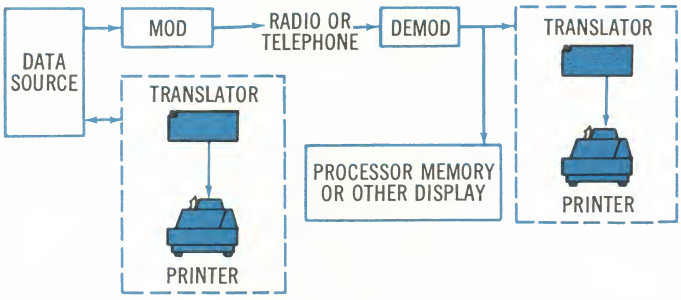
TRANSLATOR SHARING – Typical systems applications, using translator sharing at remote locations, are diagrammed at the right. The translator, which contains all of the system functions required by the page printer, can be mounted behind or under the printer, or installed in a separate rack. The functions provided by the translator include character code processing, print instructions, and format control. The remotely located page printers may be individually or group addressed when sharing a common translator. This flexibility has resulted in significant cost reductions in many applications. ■

CURRENT-SENSITIVE PAPER – Electrical pulses from the printing heads instantly mark the dry current-sensitive paper. This process eliminates burning or odor, and the use of impact mechanisms. The copy is non-fading and permanent. The message can be read while it is being printed, for true real-time readout. The page printer, employing up to eight level codes, delivers immediate, *hard-copy* readout of digitally-encoded messages. Messages are translated to print codes, and the decoded alphanumeric and symbolic characters are printed on the high-contrast, electromarking paper. *No further chemical or mechanical processing is necessary.* ■

THE TP-4000 IS DESIGNED FOR USE IN INDUSTRY for continuous, high-speed readout of cost, production and inventory figures ■ IN BUSINESS for fast, accurate hard copy of information from computers and data systems ■ IN UTILITIES, GOVERNMENT AGENCIES for information data transfer, where the time element is a vital factor in "decision-making."

Typical Central Computer Application

Data source to processor or other data station

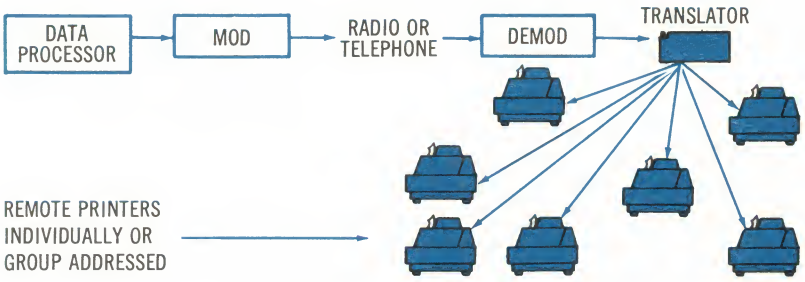


ALL SOLID STATE, INTEGRATED ELECTRONIC DESIGN . . . IT'S RELIABLE. The Motorola Desk-Top Teleprinter is specifically designed to serve in high-speed data processing systems. Solid state and integrated circuitry is employed exclusively with the new, non-impact design. It utilizes low voltage, and has only seven smoothly moving parts. The TP-4000 has consistently posted MTBF records in excess of 1,000 hours. Extended periods of two to three months have been established as normal preventive maintenance cycles. Engineered reliability has cut adjustment and repair time far below industry standards. If it is necessary to make repairs during routine maintenance, modular design makes it virtually effortless.

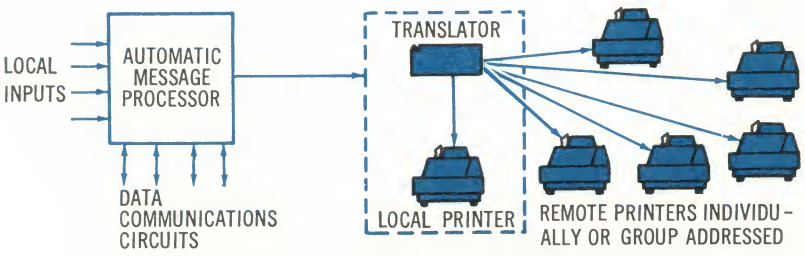
eleprinter for...

Communications Centers
Traffic Control Centers
Command and Control Centers
Computer Facilities
Executive Offices

Real Time Mail System



Automatic Data Distribution System



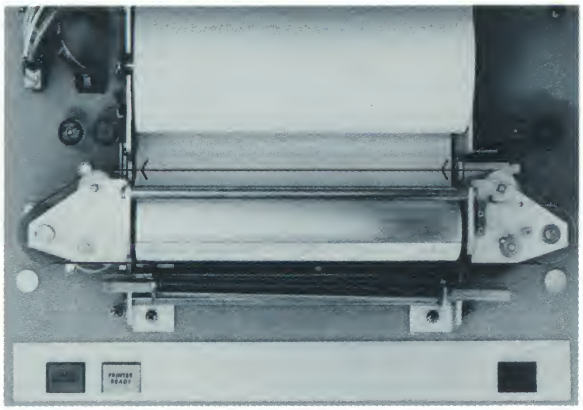
Optional Features

With a variety of optional characteristics, the Model TP-4000 can be adapted to serve a wide range of applications. It is available with:

- Speeds, from 100 to 3,000 words per minute
- Various input codes
- Any alphabet of 64 characters
- Matrix density from 35 dots (7 x 5) to 56 dots (7 x 8)
- Audible message or alarm signal
- Self-contained, automatic routine for testing
- Various control functions and interface configurations

TP-4000

Continuous, electronic printout is achieved with four print heads attached to an endless, sprocket-driven belt encircling the drive and idler pulleys. A printing head is always approaching on the left as one leaves the right – printing is continuous. A new carrier belt with four print heads can be installed as easily as a typewriter ribbon is replaced – and in about the same length of time. ■



The transport mechanism is canted upward to the right to produce a horizontal line of copy as the paper moves smoothly upward during each printing sweep. There is no jarring "start-stop" motion in the entire message cycle. The unique *continuous* printing operation eliminates the possibility of lost characters, or erroneous overprints. There are no delays for processing, and no processing materials to replenish – no messy inks, no ribbons, no wasted time, no errors. ■

CHARACTERISTICS

		Width	Depth	Height
SIZE	Printer	16″	13⅞″	9½″
	Translator	17½″	7½″	5¾″

WEIGHT Printer 40 lbs. Translator 17 lbs.

PRINTING RATE 3000 words per minute (300 characters per second)

INPUT CODE 7-bit parallel code

PAPER SUPPLY (Roll) 500 feet, 8½ inches wide

POWER REQUIREMENTS

Printer: 115V AC, plus/minus 10%, 60 plus/minus 2cps, Single Phase, 115 watts

Translator: 115V AC, plus/minus 10%, 60 plus/minus 2cps, Single Phase, 57.5 watts

ENVIRONMENTAL CONDITIONS

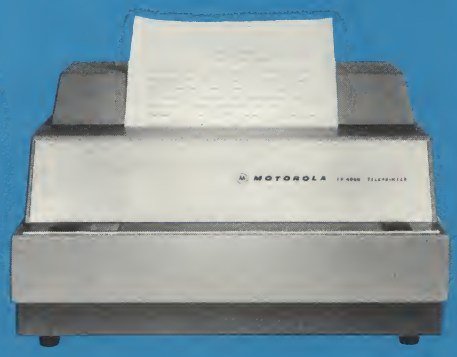
OPERATING:

Temperature	Plus 40 to plus 100 degree F
Relative Humidity	0 to 80%
Altitude	Sea Level to 15,000 feet

NONOPERATING:

Temperature	Minus 20 to plus 160 degrees F
Relative Humidity	0 to 100%
Altitude	Sea Level to 35,000 feet

FRONT SIDE TOP



Samples of actual **TP-4000** non-impact printing will be furnished promptly upon receipt of your request.

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